



**NARSIMHA REDDY
ENGINEERING COLLEGE**

UGC AUTONOMOUS ACCREDITED BY NBA & NAAC WITH A-GRADE

UNIT WISE QUESTION BANK

25CE301 BUILDING MATERIALS AND CONCRETE TECHNOLOGY

UNIT-4

S.NO	QUESTIONS	BT	CO	PO
	Part-A(Short Answer Questions)			
1	Define workability of concrete.	L1	CO4	PO2
2	List the factors affecting workability of concrete.	L1	CO4	PO2
3	What is the purpose of slump cone test?	L2	CO4	PO1
4	Define segregation in concrete.	L1	CO4	PO6
5	What is bleeding in concrete?	L1	CO4	PO5
	Part-B(Long Answer Questions)			PO1
1	Explain the concept of workability of fresh concrete and discuss the factors affecting it.	L2	CO4	PO3
2	Describe the methods of measurement of workability of concrete such as slump cone test, compaction factor test, Vee-Bee test, and flow table test.	L1,L2	CO4	PO4
3	Explain segregation and bleeding in concrete. Discuss their causes, effects, and preventive measures.	L1,L2	CO4	PO3
4	Describe the process of batching and mixing of concrete. Explain hand mixing and machine mixing methods.	L1,L2	CO4	PO4
5	Explain the methods of transporting, placing, compacting, and finishing of concrete in construction works.	L2	CO4	PO6
6	Discuss the various curing methods of concrete and explain the significance of curing in strength development and durability.	L3	CO4	PO2
7	Explain the strength gain of concrete with age and discuss the factors affecting the strength of hardened concrete.	L3	CO4	PO5
8	Describe the compressive strength, tensile strength, and flexural strength tests on concrete with procedures and significance.	L2	CO4	PO1
9	Explain Abram's water-cement ratio law and discuss the maturity concept of concrete.	L1	CO4	PO2
10	Explain shrinkage and creep in concrete. Discuss their causes, effects on structures, and methods of prevention.	L1	CO4	PO6